PATENT PFIZER ANN ARBOR MI 7346222928

T-091

P.003/009

F-720

USSN: 10/099,836 - 2 - PC20700H

Amendments to the Claims

From-

Aug-18-2006 10:05am

This listing of claims will replace all prior versions, and listings, of claims in the current application.

1. (Previously Presented) An ApoA-I agonist compound comprising:

(i) a 22 to 29-residue D-enantiomeric peptide or peptide analogue which forms an amphipathic α -helix in the presence of lipids and which comprises formula (I):

 $Z_{1}-X_{1}-X_{2}-X_{3}-X_{4}-X_{5}-X_{6}-X_{7}-X_{8}-X_{9}-X_{10}-X_{11}-X_{12}-X_{13}-X_{14}-X_{15}-X_{16}-X_{17}-X_{18}-X_{19}-X_{20}-X_{21}-X_{22}-X_{23}-Z_{2}$ or a pharmaceutically acceptable salt thereof, wherein:

X₁ is D-Ala (a), Gly (G), D-Gln (q), D-Asn (n), D-Asp (d) or D-Pro (p);

X₂ is a D-enantiomeric aliphatic residue;

X₃ is D-Leu (l) or D-Phe (f);

X₄ is a D-enantiomeric acidic residue;

X₅ is D-Leu (l) or D-Phe (f);

X₆ is D-Leu (1) or D-Phe (f);

X₇ is a D-enantiomeric hydrophilic residue;

X₈ is a D-enantiomeric acidic or a basic residue;

X₉ is D-Leu (l) or Gly (G);

 X_{10} is D-Leu (l), D-Trp (w) or Gly (G);

X₁₁ is a D-enantiomeric hydrophilic residue;

 X_{12} is a D-enantiomeric hydrophilic residue;

X₁₃ is Gly (G) or a D-enantiomeric aliphatic residue;

X₁₄ is D-Leu (l), D-Trp (w), Gly (G) or D-Nal;

 X_{15} is a D-enantiomeric hydrophilic residue;

 X_{16} is a D-enantiomeric hydrophobic residue;

 X_{17} is a D-enantiomeric hydrophobic residue;

X₁₈ is D-Gln (q), D-Asn (n) or a D-enantiomeric basic residue;

X₁₉ is D-Gln (q), D-Asn (n) or a D-enantiomeric basic residue;

X₂₀ is a D-enantiomeric basic residue;

X₂₁ is a D-enantiomeric aliphatic residue;

 X_{22} is a D-enantiomeric basic residue;

Aug-18-2006 10:05am

USSN: 10/099,836

From-

- 3 -

7346222928

PC20700H

X₂₃ is absent or a D-enantiomeric basic residue;

 Z_1 is R_2N - or RC(O)NR-;

 Z_2 is -C(O)NRR, -C(O)OR or -C(O)OH or a salt thereof:

each R is independently -H, (C₁-C₆) alkyl, (C₁-C₆) alkenyl, (C₁-C₆) alkynyl, (C₅-C₂₀) aryl, (C₆-C₂₆) alkaryl, 5-20 membered heteroaryl, 6-26 membered alkheteroaryl or a 1 to 7-residue peptide or peptide analogue in which one or more bonds between residues 1 through 7 are independently a substituted amide, an isostere of an amide or an amide mimetic; and

- each " " between residues X1 through X23 independently designates an amide linkage, a substituted amide linkage, an isostere of an amide or an amide mimetic; or
- (ii) a 22 to 29-residue altered D-enantiomeric peptide or peptide analogue according to formula (I) in which at least one of residues X_1 , X_2 , X_3 , X_4 , X_5 , X_6 , X_7 , X_8 , X_9 , X_{10} , X_{11} , X_{12} , X_{13} , X_{14} , X_{15} , X_{16} , X_{17} , X_{18} , X_{19} , X_{20} , X_{21} , X_{22} or X_{23} is conservatively substituted with another D-enantiomeric residue.
- 2. (Canceled).
- 3. (Previously Presented) The ApoA-I agonist compound of Claim 1 which is the altered Denantiomeric peptide or peptide analogue according to formula (I).
- 4. (Previously Presented) The ApoA-I agonist compound of Claim 3 in which the D-enantiomeric hydrophobic residues are fixed according to formula (I) and at least one non-fixed residue is conservatively substituted with another D-enantiomeric residue.
- 5. (Previously Presented) The ApoA-I agonist compound of Claim 4 in which:

X₁ is D-Pro (p), Gly (G) or D-Ala (a);

X₂ is D-Ala (a), D-Leu (l) or D-Val (v);

 X_3 is D-Leu (1) or D-Phe (f);

 X_5 is D-Leu (1) or D-Phe (f);

 X_6 is D-Leu (1) or D-Phe (f);

X₉ is D-Leu (l) or Gly (G);

 X_{10} is D-Leu (1), D-Trp (w) or Gly (G);

USSN: 10/099,836

- 4 -

PC20700H

X₁₃ is D-Leu (l), Gly (G) or D-Aib;

PATENT PFIZER ANN ARBOR MI

X₁₄ is D-Leu (1), D-Nal, D-Trp (w) or Gly (G);

X₁₆ is D-Ala (a), D-Nal, D-Trp (w), Gly (G), D-Leu (l) or D-Phe (f);

 X_{17} is D-Leu (l), Gly (G) or D-Nal;

 X_{21} is D-Leu (1); and

at least one of X_4 , X_7 , X_8 , X_{11} , X_{12} , X_{15} , X_{18} , X_{19} , X_{20} , X_{22} and X_{23} is conservatively substituted with another D-enantiomeric residue.

- 6. (Previously Presented) The ApoA-l agonist compound of Claim 5 in which the D-enantiomeric hydrophilic residues are fixed according to formula (I) and at least one non-fixed residue is conservatively substituted with another D-enantiomeric residue.
- 7. (Previously Presented) The ApoA-I agonist compound of Claim 6 in which:

 X_4 is D-Asp (d) or D-Glu (e);

 X_7 is D-Lys (k), D-Arg (r) or D-Orn;

 X_8 is D-Asp (d) or D-Glu (e);

 X_{11} is D-Asn (n) or D-Gln (q);

 X_{12} is D-Glu (e) or D-Asp (d);

 X_{15} is D-Asp (d) or D-Glu (e);

 X_{18} is D-Gln (q), D-Asn (n), D-Lys (k) or D-Om;

 X_{19} is D-Gln (q), D-Asn (n), D-Lys (k) or D-Orn;

 X_{20} is D-Lys (k) or D-Orn;

 X_{22} is D-Lys (k) or D-Orn;

 X_{23} is absent or D-Lys (k); and

at least one of X_1 , X_2 , X_3 , X_5 , X_6 , X_9 , X_{10} , X_{13} , X_{14} , X_{16} , X_{17} and X_{21} is conservatively substituted with another D-enantiomeric residue.

8. (Previously Presented) The ApoA-I agonist compound of Claim 7 in which X₃ is D-Leu (1) or D-Phe (f), X₆ is D-Phe (f), X₉ is D-Leu (l) or Gly (G), X₁₀ is D-Leu (l) or D-Trp (w) or Gly (G) and at least one of X_1 , X_2 , X_5 , X_{13} , X_{14} , X_{16} , X_{17} and X_{21} is conservatively substituted with another D-enantiomeric residue.

USSN: 10/099,836 - 5 -

PC20700H

9-11. (canceled)

12. (Previously Presented) The Apo-A-I agonist compound of Claim 1 which is 22-23 residue D-enantiomeric peptide or peptide analogue according to formula (1).

7346222928

13. (Previously Presented) The ApoA-I agonist compound of Claim 12 in which:

the "-" between residues designates -C(O)NH-;

 Z_1 is H_2N_{-} ; and

 Z_2 is -C(O)OH or a salt thereof.

14. (Previously Presented) The ApoA-I agonist compound of Claim 13, in which:

X₁ is D-Ala (a), Gly (G), D-Asn (n), D-Gln (q), D-Asp (d) or D-Pro (p);

X₂ is D-Ala (a), D-Val (v) or D-Leu (l);

 X_3 is D-Leu (1) or D-Phe (f);

 X_4 is D-Asp (d) or D-Glu (e);

X₅ is D-Leu (1) or D-Phe (f);

 X_6 is D-Leu (l) or D-Phe (f);

 X_7 is D-Lys (k), D-Arg (r) or D-Orn;

X₈ is D-Asp (d) or D-Glu (e);

X₉ is D-Leu (1) or Gly (G);

X₁₀ is D-Leu (1), D-Trp (w) or Gly (G);

 X_{11} is D-Asn (n) or D-Gln (q);

 X_{12} is D-Glu (e) or E-Asp (d);

 X_{13} is Gly (G), D-Leu (l) or D-Aib;

X₁₄ is D-Leu (l), D-Nal, D-Trp (w) or Gly (G);

 X_{15} is D-Asp (d) or D-Glu (e);

X₁₆ is D-Ala (a), D-Nal, D-Trp (w), D-Leu (l), D-Phe (f) or Gly (G);

 X_{17} is Gly (G), D-Leu (l) or D-Nal;

X₁₈ is D-Gln (q), D-Asn (n), D-Lys (k) or D-Orn;

X₁₉ is D-Gln (q), D-Asn (n), D-Lys (k) or D-Orn;

Aug-18-2006 10:06am

USSN: 10/099,836

From-

- 6 -

7346222928

PC20700H

 X_{20} is D-Lys (k) or D-Orn; X_{21} is D-Leu (1); X₂₂ is D-Lys (k) or D-Orn; and X_{23} is absent or D-Lys (k).

- (Previously Presented) The ApoA-I agonist compound of Claim 14, in which X23 is 15. absent.
- (Previously Presented) The ApoA-I agonist compound of Claim 13 or 14, in which one 16. of X_{18} or X_{19} is D-Gln (q) or D-Asn (n) and the other of X_{18} or X_{19} is D-Lys (k) or D-Om.
- (Previously Presented) The ApoA-I agonist compound of Claim 14 in which each of X9, 17. X_{10} , X_{13} , X_{14} , X_{15} and X_{17} is other than Gly (G).
- 18.-28. (Canceled).
- 29. (Previously Presented) An ApoA-I agonist-lipid complex comprising an ApoA-I agonist compound and a lipid, wherein the ApoA-I agonist compound is a peptide or peptide analogue according to Claim 1.
- 30.-33. (Canceled).
- 34. (Previously Presented) The ApoA-I agonist-lipid complex of Claim 29 in which the lipid is sphingomyelin.
- 35. (Currently Amended) The ApoA-I agonist-lipid complex of Claim 34 which is in which the ApoA-I agonist-lipid complex is in the form of a lyophilized powder
- 36. (Canceled).

PATENT PFIZER ANN ARBOR MI 7346222928 T-091 P.008/009 F-720

USSN: 10/099,836 - 7 - PC20700H

- 37. (Previously Presented) A pharmaceutical composition comprising an ApoA-I agonist compound and a pharmaceutically acceptable carrier, excipient or diluent, wherein the ApoA-I agonist compound is a peptide or peptide analogue according to Claim 1.
- 38.-41. (Canceled).

From-

Aug-18-2006 10:06am

- 42. (currently amended) The A pharmaceutical composition comprising a pharmaceutically acceptable carrier, excipient or diluent and an ApoA-1 agonist-lipid complex wherein the ApoA-I agonist is a peptide or peptide analog of Claim 1. of Claim 37, in which the ApoA-I agonist is in the form of an ApoA-I agonist-lipid complex, said complex comprising the ApoA-I agonist compound and a lipid.
- 43-56. (Canceled).
- 57. (Previously Presented) An ApoA-I agonist compound which is a D-enantiomeric peptide of SEQ ID NO.:4.